FLOOD CONTROL ZONE 3 ADVISORY BOARD
AUGUST 8, 2018

STAFF REPORT - STATUS UPDATE

Staff has no action items to present to the Advisory Board (AB) at this time, with the exception of approval of the draft AB meeting minutes from March 15, 2018. Given that these draft minutes can be reviewed and approved by the AB at a later date, and that there are no other actions items at this time, staff is providing this staff report/status update in lieu of holding an AB meeting. This will result in a savings to the zone of staff time costs, meeting room rental costs, and valuable AB member time. Please see below for recommendations for scheduling the next Zone 3 AB meeting.

Item 1. Zone Engineer's Report

a. 2018 Sediment Removal from Coyote Creek Concrete Channel

Staff has secured permission at Martin's Triangle for a temporary stockpile site for the gravel that will be removed from the concrete channel portion of Coyote Creek. Martin's Triangle is located behind Martin's Building Supply in Tam Valley. Bids were solicited for the removal project, and Dixon Marin Services was the lowest responsible bidder. Their bid amount $48,139. Currently, staff is coordinating the timing of the work with Dixon Marine Services, and it is anticipated that the work will take place in late August or early September.

b. Coyote Creek Tidal Reckoning Update

CLE Engineering (FOTH) was contracted to conduct a tidal reckoning (TR) at Coyote Creek, and this TR has been completed. The intent of this TR was to correlate tidal levels at Coyote Creek, where there is no tide gauge, to the tide gauge at San Francisco's Golden Gate (established in 1854, this is the oldest continually operated tide gauge in United States). The correlation between Coyote Creek and the Golden Gate gauge allows staff to determine the predicted tide levels in Coyote Creek by reviewing the tide readings at the Golden Gate. The table below shows the tide-level adjustments for Coyote Creek at the pedestrian bridge near the Dipsea Café, east of Route 1.

Coyote Creek Tide Level Adjustment Table

All elevations shown in feet NAVD 1988

Datum	San Francisco Elev	Coyote Creek Elev	# Tides	Uncert (ft)	Adjustment (ft)
HOWL	8.71				
MHHW	5.90	6.07	133	0.09	**0.17**
MHW	5.29	5.45	133	0.10	**0.16**
MTL	3.23				
MLW	1.20	1.32	134	0.10	**0.12**
MLLW	0.05	1.00	132	0.09	**0.95**
LOWL	-2.83				

Notes:

HOWL = highest observed water level (Jan 1983-Dec 2001 at San Francisco)
MHHW = mean higher high water
MHW = mean high water
MTL = mean tide level
MLW = mean low water
MLLW = mean lower low water
LOWL = lowest observed water level (Jan 1983-Dec 2001 at Port Chicago)

c. USACE Inspection of Coyote Creek Flood Control Project

On July 17, 2018 the U.S. Army Corps of Engineers (USACE) conducted their routine biennial field inspection of the Coyote Creek concrete channel and earthen levees (Project). The written results of this inspection will be provided to staff at a later date. The USACE inspector did not point out any significant changes to the Project since the last inspection. During this field visit, staff pointed out to the USACE that several culverts entering the creek have been repaired based on completed video inspections and evaluations of all the culverts entering the creek. Also, staff informed the USACE of the pending sediment removal in the concrete channel, as well as an extensive encroachment survey, as recommended by the AB, that is scheduled to be conducted in the spring of 2019. These culvert inspections and repairs were recommended by USACE in order to maintain active PL 84-99 status for the Project. Active PL 84-99 status allows for reimbursement for repair costs to the Project that may occur during a federally-declared disaster. Additionally, USACE recommended that the flood control district evaluate multiple encroachments along the Project in order to maintain active PL 84-99 statues. The spring 2019 encroachment survey is the first step in addressing Project encroachments. Currently, the Project is an active PL 84-99 project, and the work will continue to meet the USACE recommendations to continue this active status.

d. Proposed sediment removal from Coyote and Nyhan Creeks' Earthen Channels

As reported at the last AB meeting, the District recently had an analysis completed for potential sediment removal from the earthen-channel portions of Coyote and Nyhan Creeks. One proposed project for sediment removal is to remove 2,400 cubic yards (CY) of sediment along the entire reach of Coyote Creek, from the outfall of the concrete channel to downstream bridge at the Mill Valley-Sausalito Pathway at Richardson Bay. This removal would create one foot of free board (height above the water surface) between the designed flow capacity of the creek and the top of the creek bank. Please see the attached Technical Memorandum for details. 2,400 cy of sediment is a relatively small amount, and the cost of mobilizing equipment along the entire creek would be high. Staff is currently evaluating if removal of this small quantity of sediment along the entire reach is cost-effective and necessary.

e. Charles F. McGlashan Pathway Wetland Restoration Project Update

As reported at a previous AB meeting, staff has determined that the project location for the Charles F. McGlashan Pathway Wetland Restoration Project includes District-owned property and County-owned property. The County owned portion is being managed by Marin County Parks (Parks). Parks has agreed to take the lead on this restoration, and to fund the County portion of the pathway restoration. Zone 3 will fund the portion of the project that is located on District-owned property. They have ordered the plants required for the restoration. The restoration is tentatively scheduled to be completed by Parks in 2018.

f. Marin City Projects Update

Staff has been working with Caltrans to finalize the draft report for Lower Marin City Drainage Study. A final report will be issued once the Caltrans and District collaboration is complete. Staff received word from the California Office of Emergency Services (CalOES), who administers the Hazard Mitigation Grant Program (HMGP) for FEMA, regarding the District's HMGP grant application for $1.5M. The project has been waitlisted for future funding opportunities likely available through another disaster declaration. At this time, CalOES was unable to provide any timetable.

The Resilient By Design Team P+SET's final report for Marin City has been completed, and a link to the online version of this report is here:
https://drive.google.com/file/d/1f1Wz00wXmyiHFw1h8JgHHjGCKpVgtJ_z/view

District staff will be providing feedback to P+SET on the technical merits of certain elements of their report at their request. This wonderful resource document outlines a variety of projects to consider by stakeholders for Marin City, and many of them do not fall within the purview of the flood control zone. Some of the projects in the report are being addressed by the Lower Marin City Drainage Study.

g. Manzanita Flood Mitigation Update

The County was awarded a Caltrans SB1 grant to study the area's flooding in more detail to address storm related flooding as well as sea level rise.

h. Amendment to Existing Agreement with the City of Mill Valley - Flood Studies Funding Agreement Regarding Phase 2 Re-Evaluation of Conceptual Flood Reduction Measures on Arroyo Corte Madera Del Presidio (ACMdP) and Comprehensive Flood Control and Drainage Master Plan within Flood Control Zone 3.

At the last AB meeting, the Zone 3 AB recommended amending the existing agreement to increase the total funding amount by $45,000. On May 8, 2018, the Board of Supervisors for the Marin County Flood Control and Water Conservation District approved this amendment, bringing the total project amount to $475,000. City of Mill Valley staff have updated District staff on the progress of the study. Mill Valley staff report that the consultant is updating the existing conditions model.

Item 2. Schedule Next Meeting

Staff recommends that the AB consider meeting in the first quarter of 2019 to discuss the zone budget, Coyote Creek earthen channel sediment removal, and other potential items. Should the need arise to meet sooner than the first quarter of 2019, a meeting can be organized.